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IOA DI/DO/BFI/DS/1.0A/EX - Input/output module

2906600

https://www.phoenixcontact.com/pc/products/2906600

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Fuse module for VIP I/O-Marshalling base elements with replaceable 1 A fuses in the field device supply path and in the signal path. Integrated test points and a disconnect knife enable uninterrupted signal measurement.

Product description

Fuse module with replaceable 1 A fuse in the supply path and in the signal path. This enables field devices to be supplied with voltage directly from the base element. In addition, the I/O board is protected against short circuits in the signal lines. If a fuse fails, this is indicated by an LED. Test points and a disconnect knife are available in the signal path for uninterrupted signal measurement. The module is installed on a corresponding VIP I/O-Marshalling base element by means of plug-in contact. Installation in zone 2, “ec” type of protection is permitted.

Your advantages

- Signal line blown fuse indication
- Two-stage progressive release allowing for voltage checks with field-powered devices
- Channel for marking accessories
- Replaceable TE5-style fusing
- Signal disconnect with test points
- Integrated keying reduces possible user error during replacement
- 24 V internal marshalling option for connected field device with blown fuse indication

Commercial data

Item number	2906600
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	CK8212
Catalog page	Page 555 (C-5-2017)
GTIN	4055626295268
Weight per piece (including packing)	72.5 g
Weight per piece (excluding packing)	24.1 g
Customs tariff number	85371098
Country of origin	US

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Technical data

Product properties

Product type	Interface module
Product family	VIP I/O-Marshalling
No. of channels	1
Operating mode	100% operating factor

Insulation characteristics

Overvoltage category	II
Pollution degree	2

Electrical properties

Max. operating voltage U_{max}	30 V
Max. permissible current	1 A (fuse limited)
Nominal voltage U_N	24 V DC
Max. current carrying capacity per branch	1 A (fuse limited)

Output data

Nominal supply voltage	24 V DC
Continuous load current	1 A

Connection data

Control circuits

Connection method	Pin strip
Number of connections	1
Number of positions	13

Ex data

Safety data

Input voltage U_i	30 V
Input current I_i	1 A
Inductance Li	0 mH
Capacitance Ci	0 µF
Max. output voltage U_o	U_i
Max. output current I_o	I_i
Max. output power P_o	P_i

Signaling

Status display	no
Status display present	Yes, if the fuse fails

Dimensions

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Item dimensions

Width	10.3 mm
Height	64.2 mm
Depth	72.9 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 75 °C
Ambient temperature (storage/transport)	-40 °C ... 75 °C
Altitude	≤ 2000 m
Permissible humidity (operation)	0 % ... 95 % (non-condensing)

Approvals

ATEX

Identification	Ex II 3G Ex nA IIC T4 Gc
Certificate	CSANe 21ATEX4128X

IECEx

Identification	Ex nA IIC T4 Gc
Certificate	IECEx CSAE 21.0004X

UKEX

Identification	Ⓔx II 3G Ex nA IIC T4 Gc
Certificate	PxCIF23UKEX2906598X

UL, USA/Canada

Identification	Class I, Div. 2, Groups A, B, C, D T4
	Class I, Zone 2, IIC T4

CSA, USA/Canada

Identification	Class I, Div. 2, Groups A, B, C, D T4
	Class I, Zone 2, AEx nA IIC T4 Gc
	Ex nA IIC T4 Gc

Standards and regulations

Standards/regulations	IEC 60664
	DIN EN 50178

Mounting

Mounting position	any

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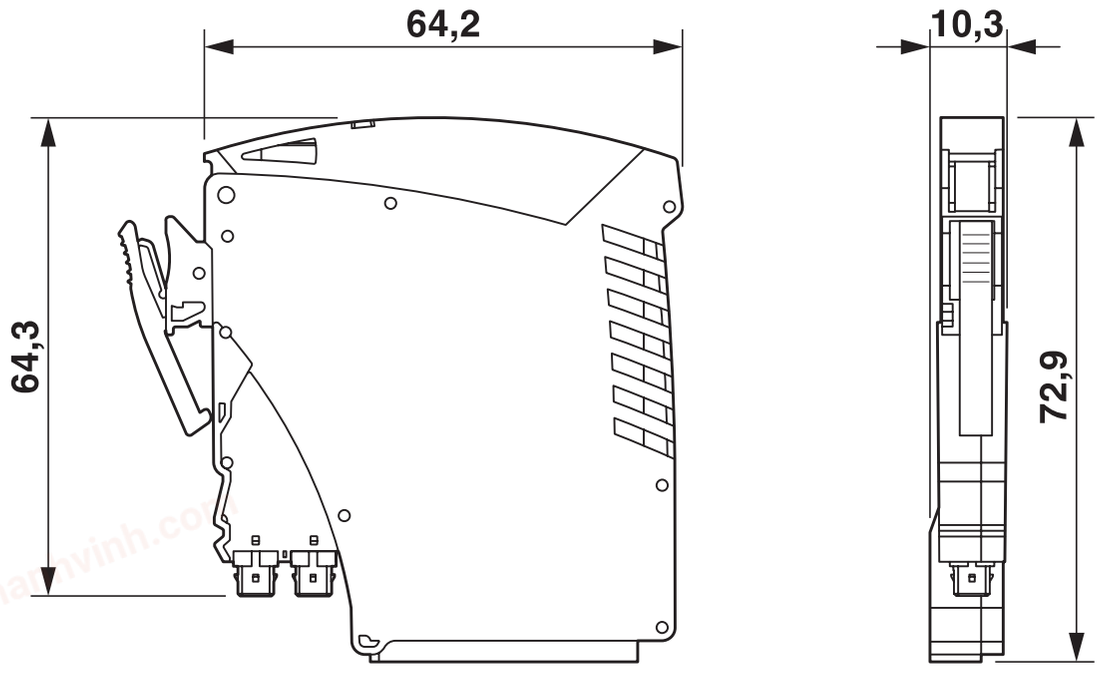
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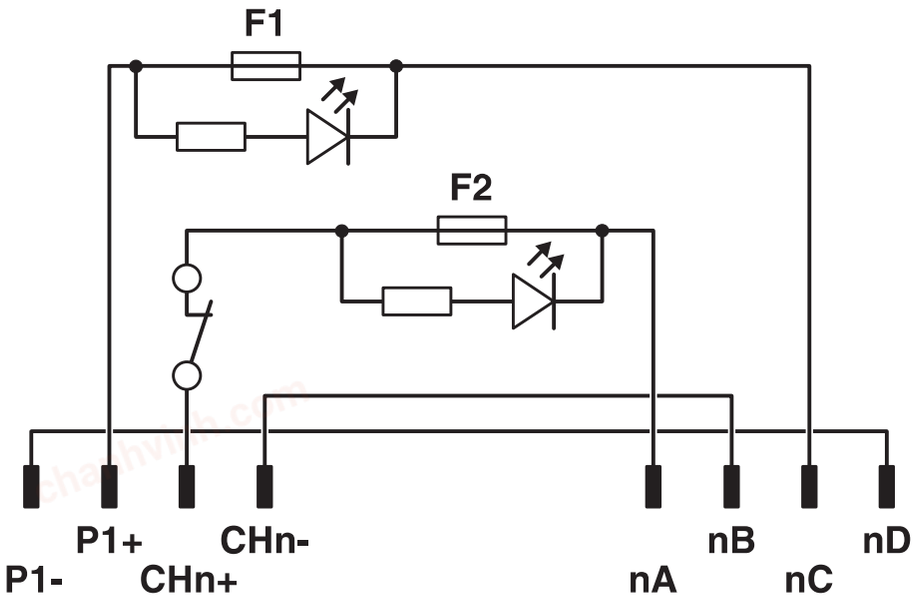
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Drawings

Dimensional drawing



Circuit diagram



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/2906600

Functional Safety
Approval ID: PHO 1609035 C001

IECEx
Approval ID: IECEx SIR 16.0088X

CSA
Approval ID: 2431647

FM approved
Approval ID: FM 16USUS0155X

CSAus
Approval ID: 2431647

ATEX
Approval ID: Sira 16ATEX4260X

cCSAus

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Classifications

ECLASS

ECLASS-11.0	27141152
ECLASS-12.0	27141152
ECLASS-13.0	27141152

ETIM

ETIM 9.0	EC002780

UNSPSC

UNSPSC 21.0	39121400

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	e06ecded-2e91-4dde-923b-d0ee8a45b012

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